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Dated: 5/30/03

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(Anna P. Lucey)

Docket No.: UMNJ-P01-003  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Patent Application of:  
Foran et al

Application No.: 10/072470

Group Art Unit: 2621

Filed: February 5, 2002

Examiner: Not Yet Assigned

For: SYSTEMS FOR ANALYZING  
MICROTISSUE ARRAYS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned.

A copy of each reference on PTO/SB/08 is attached.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents should one or more of the documents be applied against the claims of the present application.

The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. UMNJ-P01-003.

Dated: *May 30, 2003*

Respectfully submitted,

By 

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/072470
		Filing Date	February 5, 2002
		First Named Inventor	David J. Foran
		Art Unit	2621
		Examiner Name	Not Yet Assigned
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U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	AC	4,513,438	04-23-1985	Graham et al.
	AD	6,148,096	11-14-2000	Pressman et al.
	AE	6,226,392	05-01-2001	Bacus et al.

Pages, Columns, Lines,  
Where Relevant  
Passages or Relevant  
Figures Appear

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	AF	WO 93/14600	07-22-1993	Supernac Technology
	AG	WO 96/07161	03-07-1996	Eskofot A/S
	AH	WO 99/30264	06-17-1999	Bellsouth IP Corp.

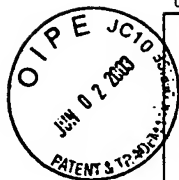
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the applicant number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	AI	Baumann, I. et al. Image Analysis Detects Lineage-Specific Morphologic Markers in Leukemic Blast Cells. Am. J. Clin. Pathol. 105, 23-30 (Jan. 1996).		
	AJ	Bennett, J.M., et al., "Proposals for the Classification of the Acute Leukaemias", Br. J. Haematol., Vol. 33, pp. 451-458 (1976).		
	AK	Cabral, J.E. Jr. & Kim, Y. Multimedia Systems for Telemedicine and Their Communications Requirements. IEEE Communications Magazine 34, 20-27 (1 July 1996).		
	AL	Chan, J. K. C., et al., "A Revised European-American Classification of Lymphoid Neoplasms Proposed by the International Lymphoma Study Group," Amer. J. Clin. Pathol., Vol. 103:(5), pp. 543-560 (1995).		
	AM	Comaniciu, D. and Meer, P., "Distribution Free Decomposition of Multivariate Data," Pattern Anal. Applicat., Vol. 2, pp. 22-30 (1999).		
	AN	Dryden, I.L., and Mardia, K.V., Statistical Shape Analysis, West Sussex, U.K.: Wiley, pp. 251-278 (1998).		
	AO	Garcia-Conde, J. and Cabanillas, F., "Mantle Cell Lymphoma: A Lymphoproliferative Disorder Associate with Aberrant Function of the Cell Cycle," Leukemia, Vol. 10:(S2), pp. :S78-S83 (1996).		

Examiner Signature	Date Considered
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PTO/SB/08A (10-01)  
Approved for use through 10/31/2002.OMB 0651-0031  
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
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		First Named Inventor	David J. Foran
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		Examiner Name	Not Yet Assigned
		Attorney Docket Number	UMNJ-P01-003
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AP	Geisler, C. H., et al., "Prognostic Importance of Flow Cytometric Immunophenotyping of 540 Consecutive Patients with B-Cell Chronic Lymphocytic Leukemia," Blood, Vol. 78:(7), pp. 1795-1802 (1991).
AQ	Genesereth M., and Nilson, N., "Logical Foundations of Artificial Intelligence, Palo Alto, CA: Morgan Kaufman,, pp. 19-45 (1988).
AR	Grimes, G.J., "Remote Microscopy for Hi-Res Real-Time interactive pathology," Advanced Imaging., Vol. 12:7, pp. 12-16 (1998).
AS	Groshong, B.R. Estimating Simple Closed Contours in Images. <i>Proc. Ann. Symposium Comp. Based Med. Systems</i> 5, 35-43 (14 June 1992).
AT	Harms, H., et al., "Segmentation of Stained Blood Cell Images Measured at High Scanning Density with High Magnification and High Numerical Aperture Optics," Cytometry, Vol. 7, pp. 522-531 (1986).
AU	Head, D. R., et al., "Reproducibility of the French-American-British Classification of Acute Leukemia: The Southwest Oncology Group Experience," Amer. J. Hematol., Vol. 18, pp. 47-57 (1985).
AV	Hu, M. K., et al., "Visual Pattern Recognition by Moment Invariants," IRE Trans. Inform. Theory Inform. Technol., Vol. 8, pp. 179-187 (1962).
AW	Kauppinen, H., et al., "An Experimental Comparison of Autoregressive and Fourier-Based Descriptors in 2D Shape Classification," IEEE Trans. Pattern Anal. Machine Intell., Vol. 17(2), pp. 201-207 (1995).
AX	Kendall, D.G., "A Survey of the Statistical Theory of Shape," Statistical Science, Vol. 4(2), pp. 87-120 (1989).
AY	Khotanzad, A., and Hong, Y. H., "Invariant Image Recognition by Zernike Moments," IEEE Trans. Pattern Anal. Machine Intell., Vol. 12(5), pp. 489-497 (1990).
AZ	Khotanzad, A., and Hong, Y. H., "Rotation Invariant Image Recognition Using Features Selected Via a Systematic Method", Pattern Recognit., Vol. 23:10, pp. 1089-1101 (1990).
BA	Kilo, M. N., and Dorfman, D. M., "The Utility of Flow Cytometric Immunophenotypic Analysis in the Distinction of Small Lymphocytic Lymphoma/Chronic Lymphocytic Leukemia from Mantle Cell Lymphoma," Amer. J. Clin. Pathol., Vol. 105, pp. 451-457 (1996).
BB	Kuhl, F., P and Giardina, C.R., "Elliptic Fourier Features of a Closed Contour," Computer Graph. Image Process., Vol. 18, pp. 236-258 (1982).
BC	Mao, J. and Jain, A.K., "Texture Classification Segmentation Using Multiresolution Simultaneous Autoregressive Models," Pattern Recognit., Vol. 25(2), pp. 173-188 (1992).
BD	Rozman, C., and Montserrat, E., "Chronic Lymphocytic Leukemia", N.E.J.M., Vol. 333:(16), pp. 1052-1057 (1995).

Examiner Signature	Date Considered
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BE	Vadlamudi, G., et al., "Leukemic Phase of Mantle Cell Lymphoma Two Case Reports and Review of the Literature", Arch. Pathol. Lab. Med., Vol. 120, pp. 35-40 (1996).	
BF	Yatabe, Y, et al., "Clinicopathologic Study of PRAD1/Cyclin D1 Overexpressing Lymphoma with Special Reference to Mantle Cell Lymphoma", Amer. J. Surg. Pathol., Vol. 20(9), pp. 1110-1122 (1996).	
BG	Zink, S., and Jaffe, C. C., "Medical Imaging Databases, A National Institutes of Health Workshop," Investigative Radiol., Vol. 28(4), pp. 366-372 (1993).	

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